

1/13

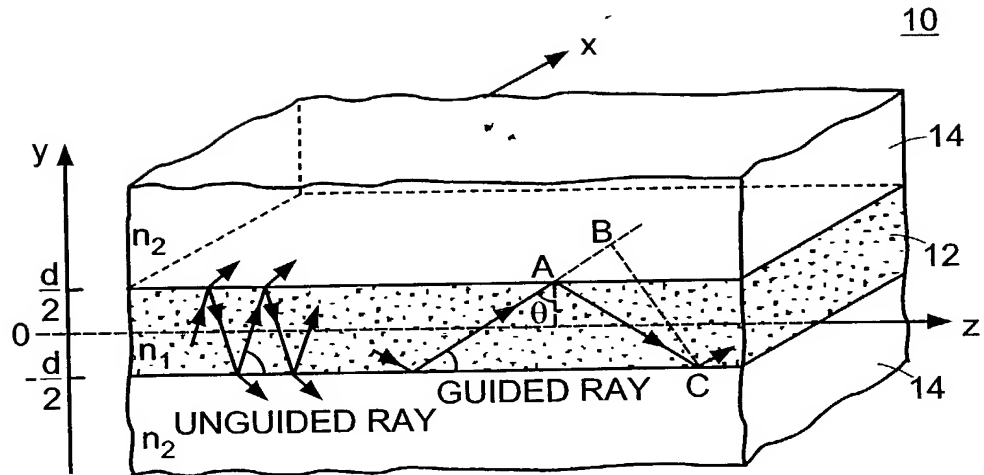


FIG. 1

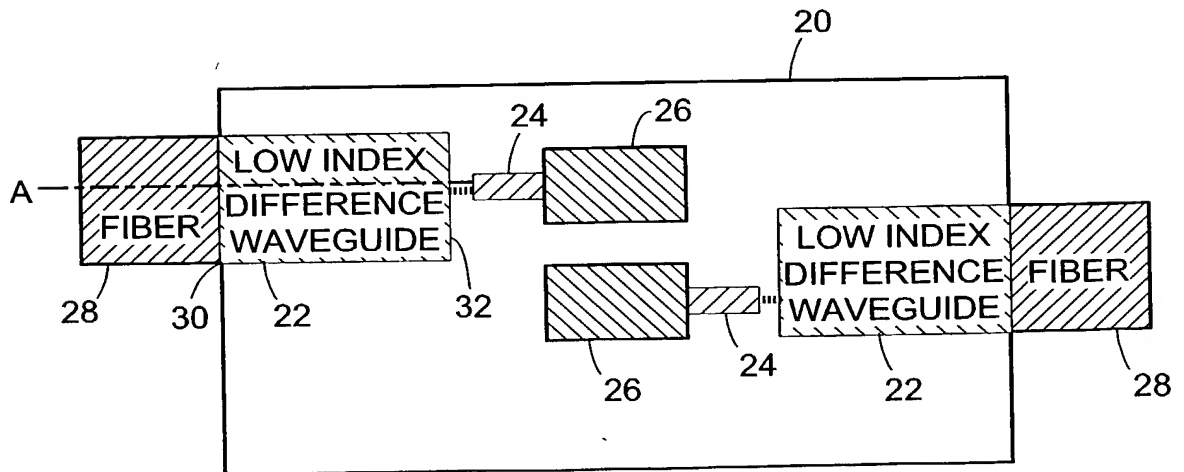


FIG. 2

2/13

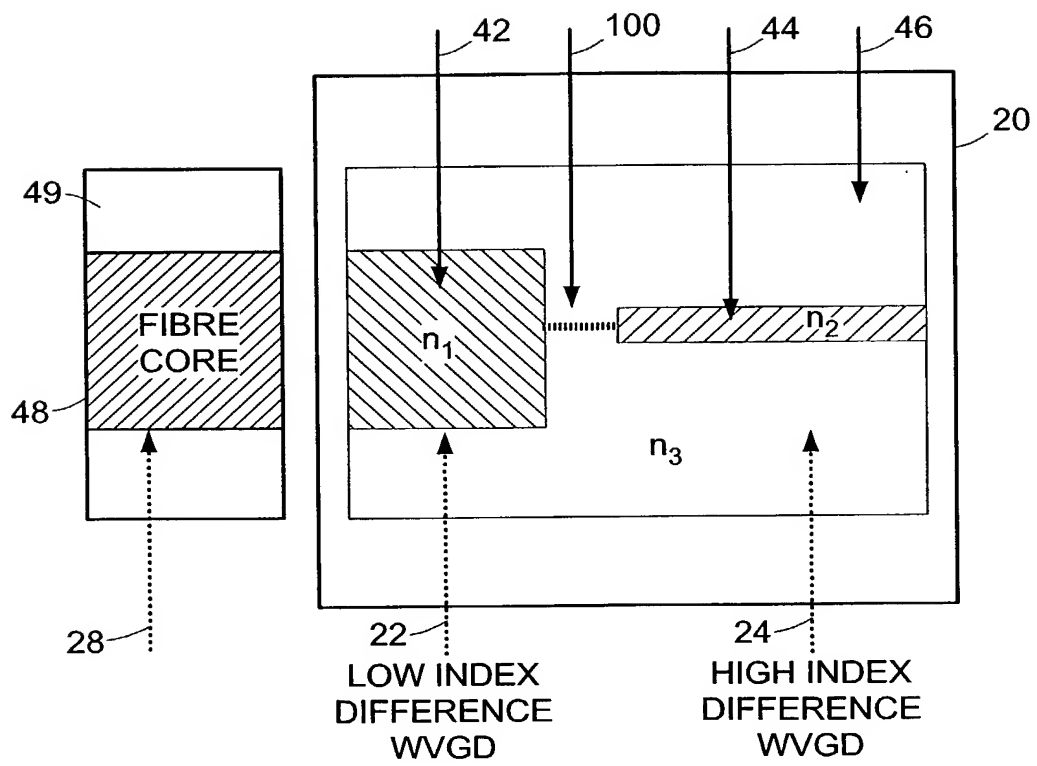


FIG. 3

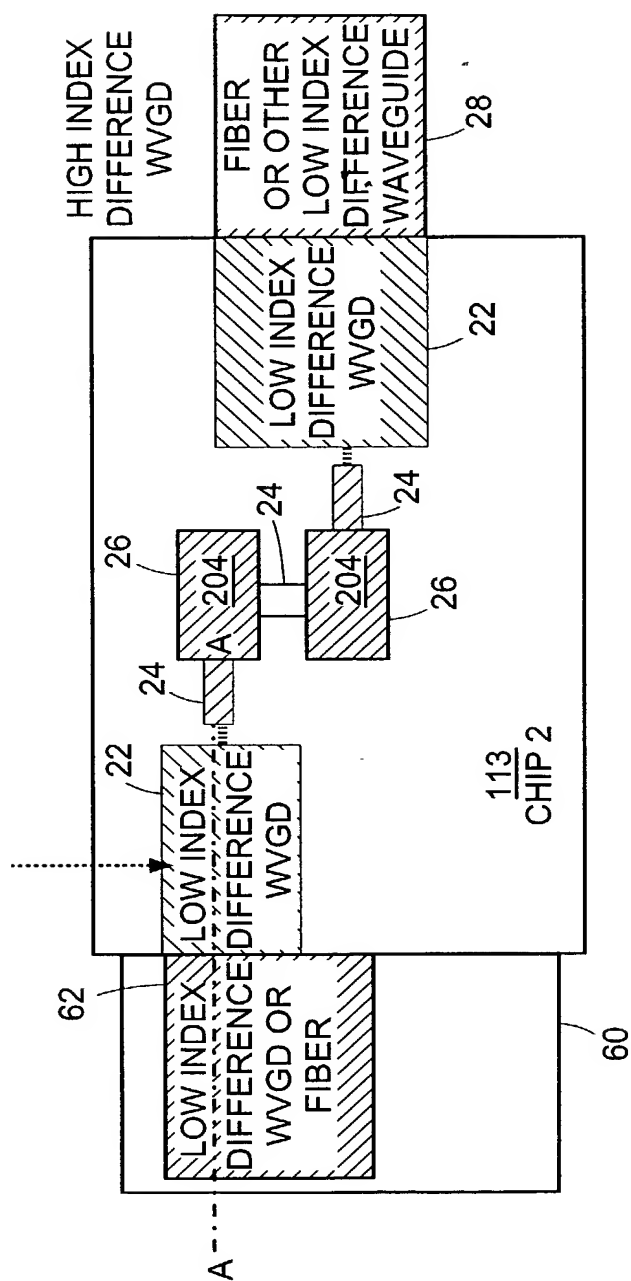


FIG. 4

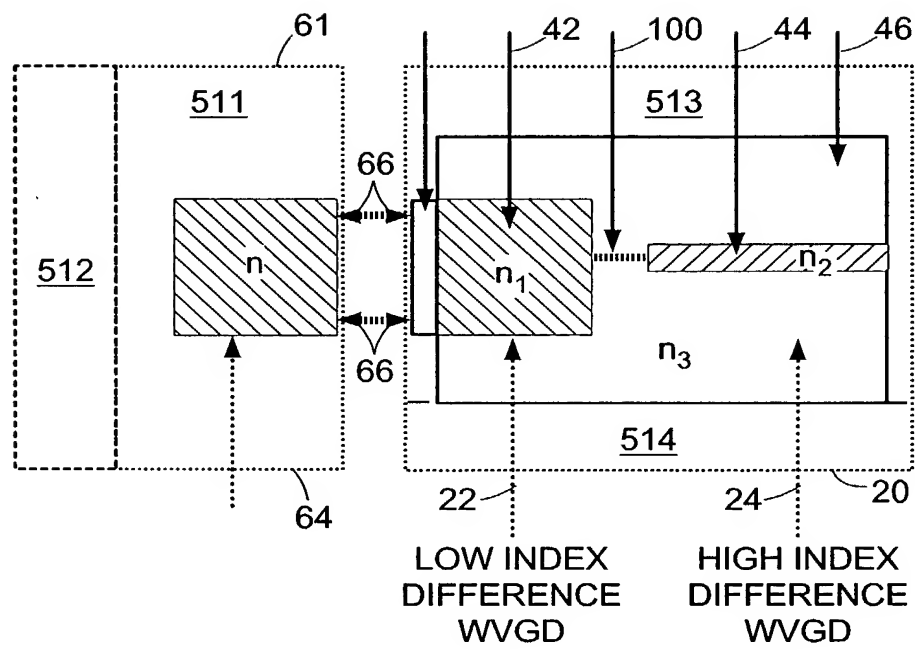


FIG. 5

5/13

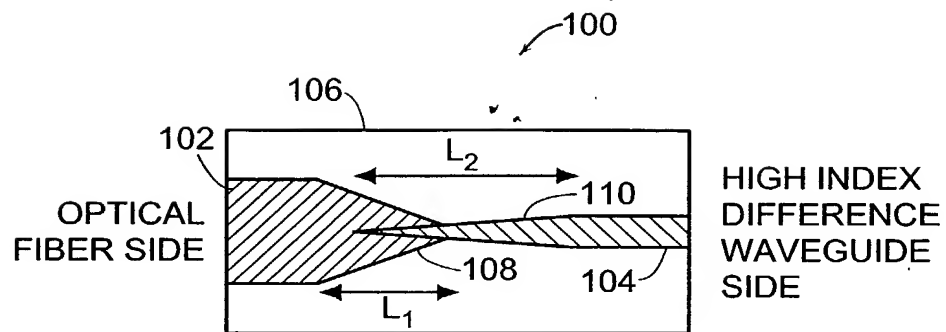


FIG. 6

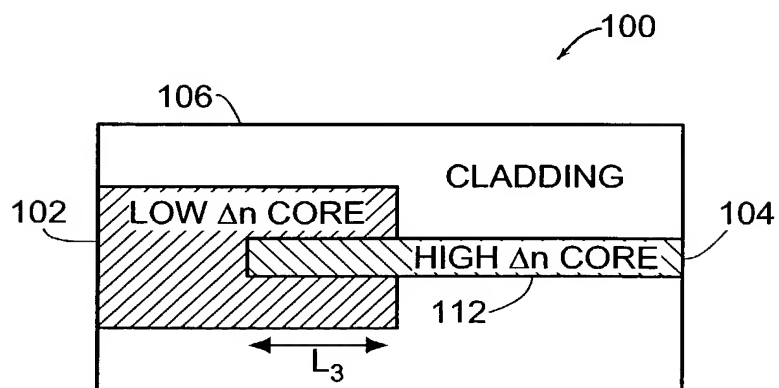


FIG. 7

6/13

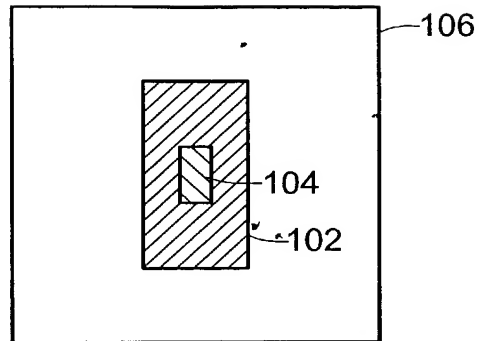


FIG. 8

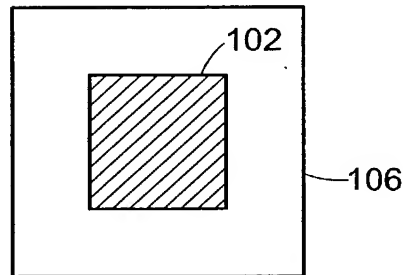


FIG. 9

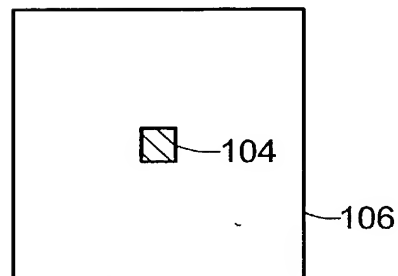


FIG. 10

7/13

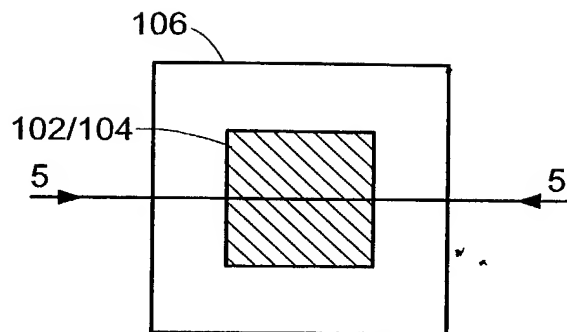


FIG. 11A

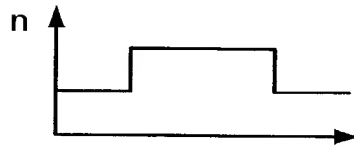


FIG. 11B

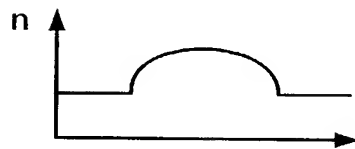


FIG. 11C

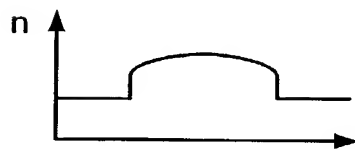


FIG. 11D



FIG. 11E



FIG. 11F

8/13



FIG. 11G

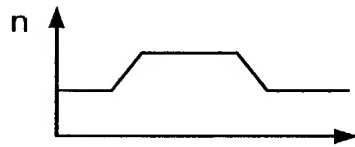


FIG. 11H

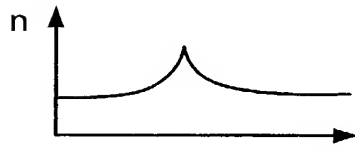


FIG. 11I

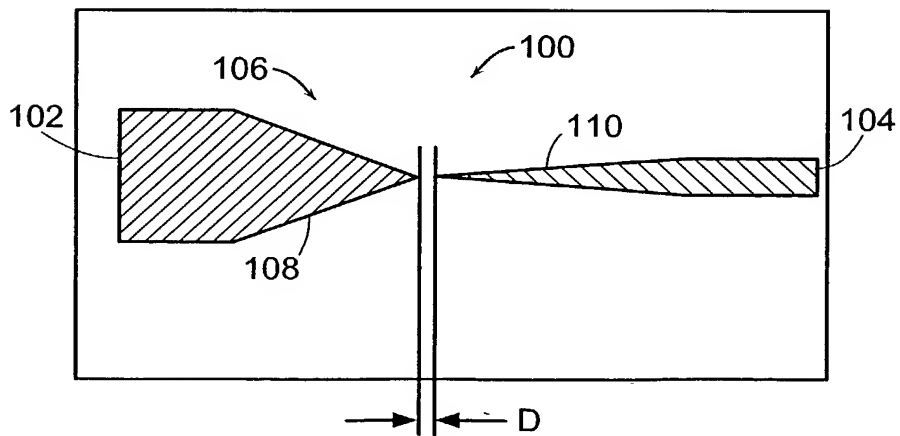


FIG. 12



9/13

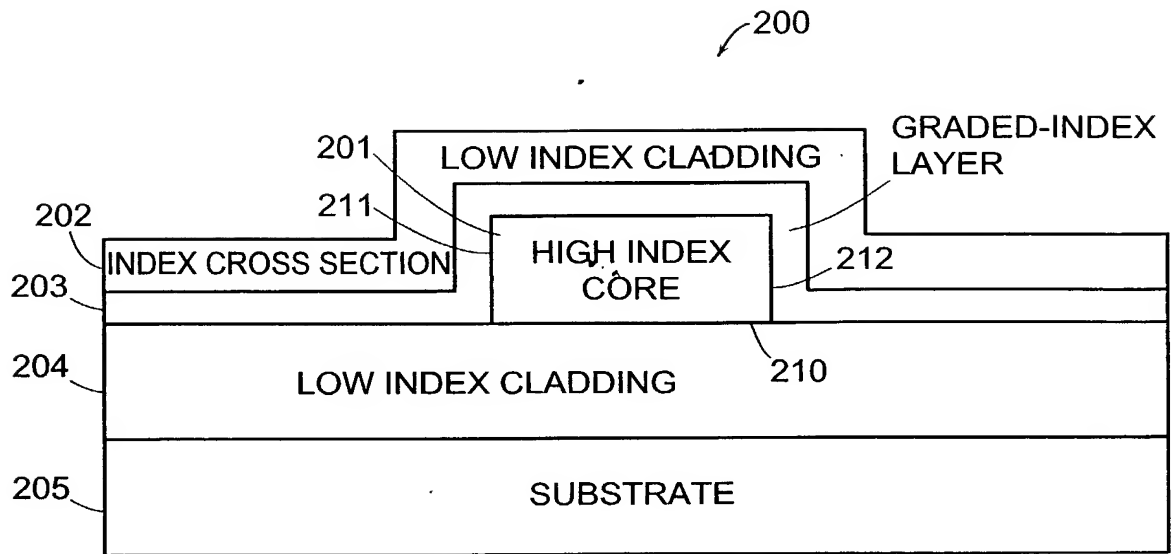


FIG. 13

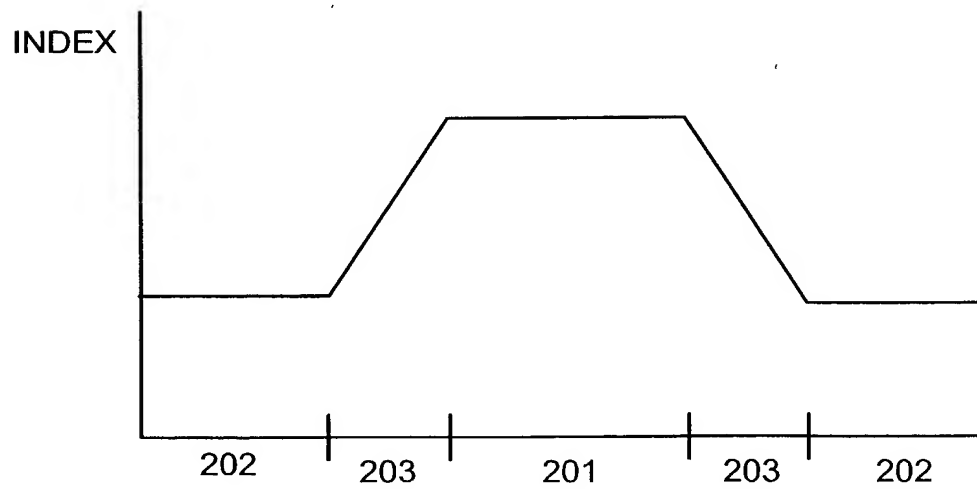


FIG. 14

LOW INDEX CLADDING



GRADED INDEX LAYER  
(HIGH TO LOW INDEX)



HIGH INDEX WAVEGUIDE CORE/  
LOW INDEX CLADDING/  
SUBSTRATE

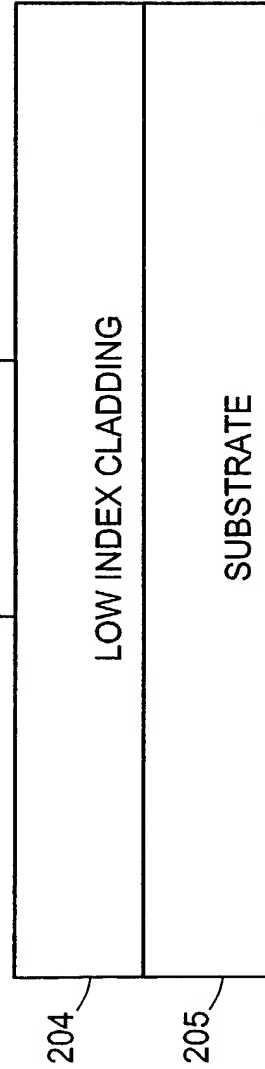
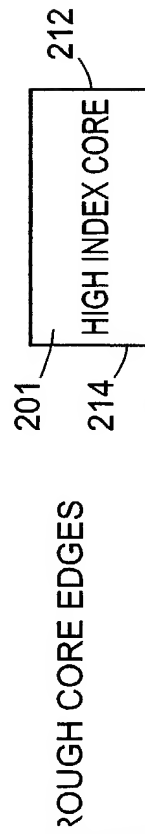


FIG. 15

11/13

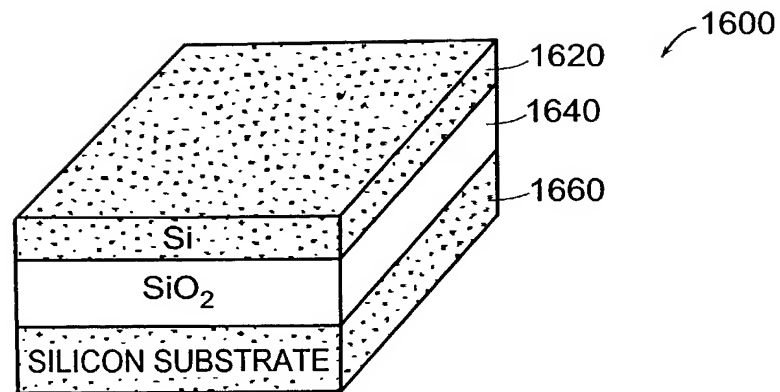


FIG. 16

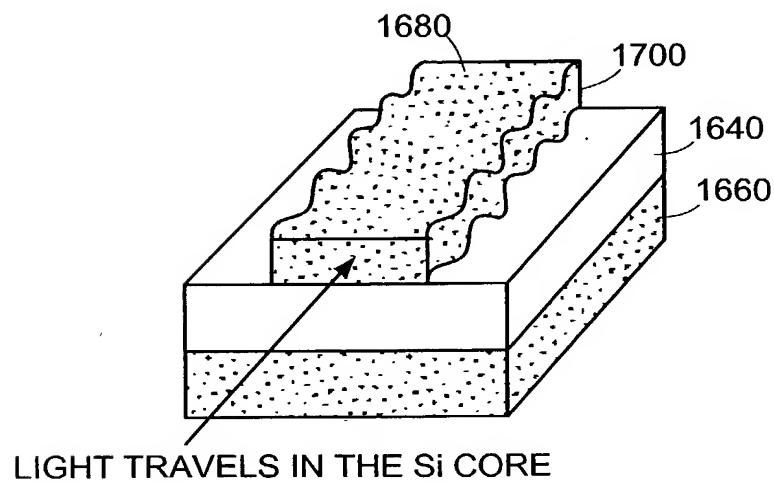


FIG. 17

12/13

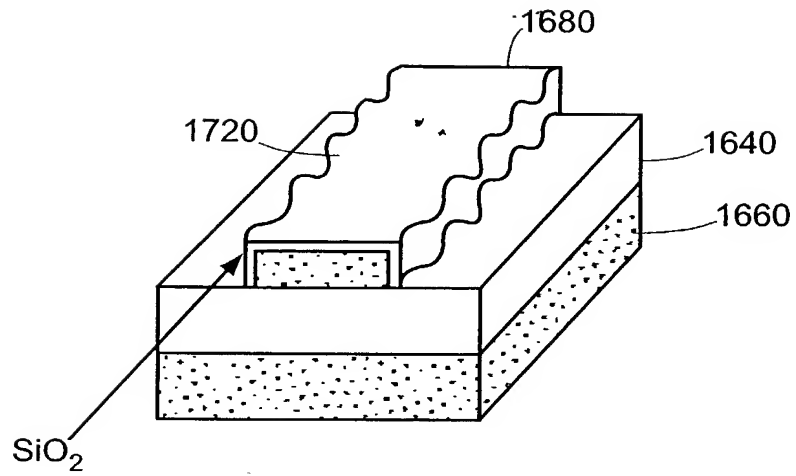


FIG. 18

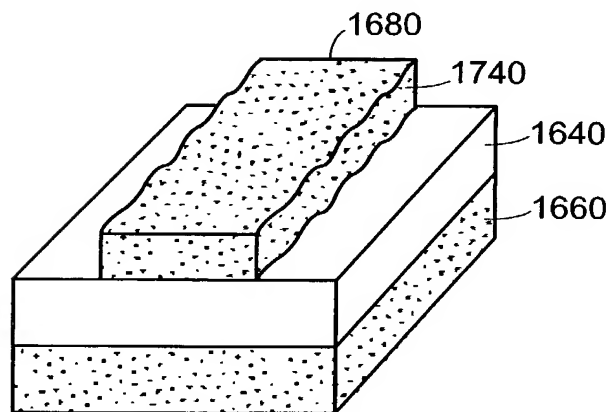


FIG. 19

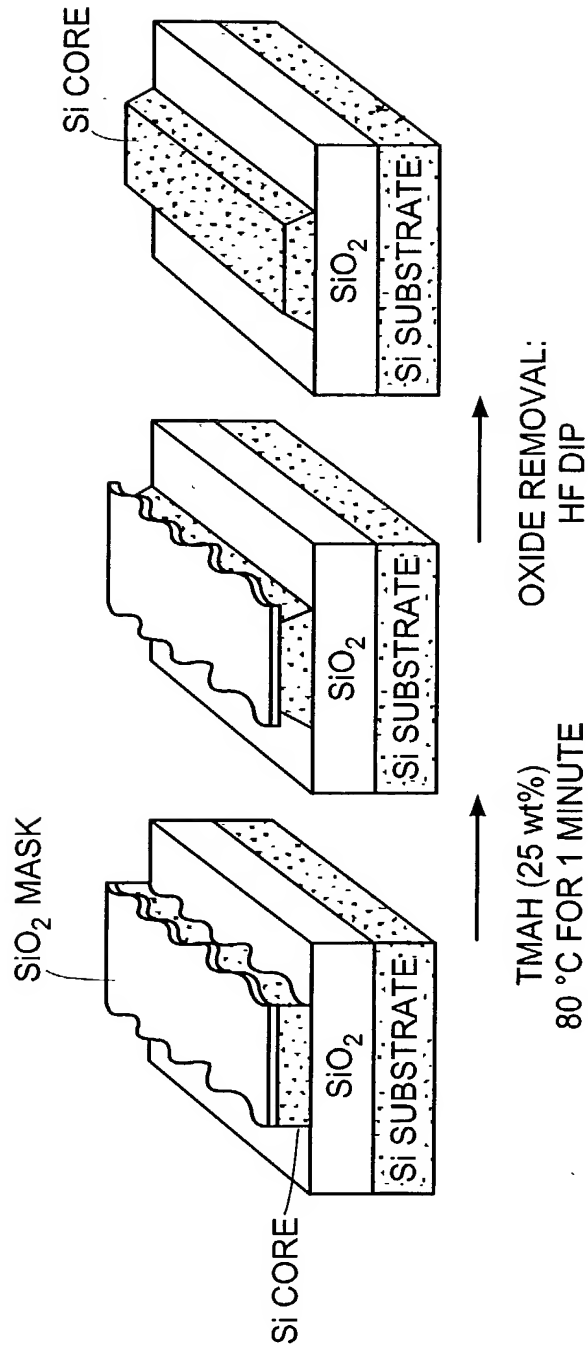


FIG. 20